

FORM PTO-1449

(REV. 8-83)

JAN 12 2004



U.S. Department of
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INFORMATION DISCLOSURE STATEMENT

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Atty. Docket:
0492611-0512

In Re Application No.:
10/655,872

Applicant: Bear, et al.

Filing Date:
September 5, 2003

Group:

U.S. PATENT DOCUMENTS

| Examiner's Initials | U.S. Patent No. | Applicant | Issue Date | Class | Subclass |
|------------------------|-----------------|-----------|------------|-------|----------|
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U.S. PATENT APPLICATIONS

| Examiner's Initials: | Serial Number: | Applicant: | Publication Date: | Group: | Art Unit: |
|-------------------------|----------------|------------|-------------------|--------|-----------|
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FOREIGN PATENT DOCUMENTS

| Examiner's Initials | Document No. | Country | Date | Translation | |
|------------------------|--------------|---------|------|-------------|----|
| | | | | Yes | No |
| | | | | | |

OTHER DOCUMENTS

| Examiner's Initials | Citation (Including Author, Title, Date, Pertinent Pages, Etc.) |
|------------------------|--|
| | Bernstein, et al., "Role for a Bidentate Ribonuclease in the Initiation Step of RNA Interference", <i>Nature</i> , 409: 363-366, 2001. |
| | Brummelkamp, et al., "A System for Stable Expression of Short Interfering RNAs in Mammalian Cells", <i>Science</i> , 21: 21, 2002. |
| | Brummelkamp, et al., "Stable Suppression of Tumorigenicity by Virus-Mediated RNA Interference", <i>Cancer Cell</i> , 2002. |
| | Chen, et al., "RAG-2 Deficient Blastocyst Complementation: an Assay of Gene Function in Lymphocyte Development", <i>Proc. Natl. Acad. Sci. USA</i> , 90: 4528-4532, 1993. |
| | Devroe, et al., "Retrovirus-Delivered siRNA", <i>BMC Biotechnology</i> , 2: 2002. |
| | Elbashir, et al., "RNA Interference is Mediated by 21- and 22-Nucleotide RNAs", <i>Genes Dev</i> , 15: 188-200, 2001. |
| | Elbashir, et al., "Duplexes of 21-Nucleotide RNAs Mediate RNA Interference in Cultured Mammalian Cells", <i>Nature</i> , 411: 494-498, 2001. |
| | Eszterhas, et al., "Transcriptional Interference by Independently Regulated Genes Occurs in any Relative Arrangement of the Genes and is Influenced by Chromosomal Integration Position", <i>Mol. Cell. Biol.</i> 22: 469-479, 2002. |
| | Fire, et al., Potent and Specific Genetic Interference by Double-Stranded RNA in <i>Caenorhabditis Elegans</i> ", <i>Nature</i> , 391: 806-811, 1998. |
| | Fung, et al., "CD8 is Needed for Development of Cytotoxic T Cells but Not Helper T Cells", <i>Cell</i> , 65: 442-449, 1991. |

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Hacein-Bey-Abina, et al., "Sustained Correction of X-Linked Severe Combined Immunodeficiency by Ex Vivo Gene Therapy", *N. Engl. J. Med.* 346: 1185-1193, 2002.Hannon, et al., "RNA Interference", *Nature*, 418: 244-251, 2002.Hogquist, K., "Signal Strength in Thymic Selection and Lineage Commitment", *Curr. Opin. Immunol.* 13: 225-231, 2001.Jaenisch, et al., "Infection of Preimplantation Mouse Embryos and of Newborn Mice with Leukemia Virus: Tissue Distribution of Viral DNA and RNA and Leukemogenesis in the Adult Animal", *Proc. Natl. Acad. Sci USA*, 72: 4008-4012, 1975.Kennerdell, et al., "Use of dsRNA-Mediated Genetic Interference to Demonstrate that Frizzled and Frizzled 2 Act in the Wingless Pathway", *Cell*, 95: 1017-1026, 1998.Martinez, et al., "Single-Stranded Antisense siRNAs Guide Target RNA Cleavage in RNAi", *Cell*, 110: 563-574, 2002.McManus, et al., "Gene Silencing in Mammals by siRNAs", *Nature Genetics Reviews in Press.* (2002)McManus, et al., "Small Interfering RNA-Mediated Gene Silencing T Lymphocytes", *The Journal of Immunology*, 169: 5754-5760, 2002.McManus, et al., "A Gene Silencing Using Micro-RNA Designed Hairpins", *RNA*, 8: 842-850, 2002.Mitchell, et al., "Immunological Adjuvants Promote Activated T Cell Survival via Induction of Bcl-3", *Nat. Immunol.* 2: 397-402, 2001.Moss, et al., "The Cold Shock Domain Protein LIN-28 Controls Developmental Timing in *C. Elegans* and is Regulated by the Lin-4 RNA", *Cell*, 88: 637-646, 1997.Paddison, et al., "Short Hairpin RNAs (shRNAs) Induce Sequence-Specific Silencing in Mammalian Cells", *Genes Dev.* 16: 948-958, 2002.Paddison, et al., "RNA Interference: The New Somatic Cell Genetics?" *Cancer Cell*, 2: 17-23, 2002.Paul, et al., "Effective Expression of Small Interfering RNA in Human Cells", *Nat. Biotechnol.* 20: 505-508, 2002.Pfeifer, et al., Transgenesis by Lentiviral Vectors: Lack of Gene Silencing in Mammalian Embryonic Stem Cells and Preimplantation Embryos", *Proc Natl. Acad. Sci. USA*, 99: 2140-2145, 2002.Reinhart, et al., "The 21-Nucleotide Let-7 RNA Regulates Developmental Timing in *Caenorhabditis Elegans*", *Nature*, 403: 901-906, 2000.Schmidt, et al., "The Cytomegalovirus Enhancer: A Pan-Active Control Element in Transgenic Mice", *Mol. Cell. Biol.* 10: 4406-4411, 1990.Stark, et al., "How Cells Respond to Interferons", *Annu Rev Biochem.* 67: 227-264, 1998.

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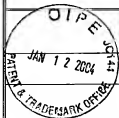
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Sui, et al., "A DNA Vector-Based RNAi Technology to Suppress Gene Expression in Mammalian Cells" *Proc. Natl. Acad. Sci. USA*, **99**: 5515-5520, 2002.Tuschl, T., "Expanding Small RNA Interference", *Nat. Biotechnol.* **20**: 446-448, 2002.Wightman, et al., "Posttranscriptional Regulation of the Heterochronic Gene Lin-14 by Lin-4 Mediates Temporal Pattern Formation in *C. Elegans*", *Cell*, **75**: 855-862, 1993.Willerford, et al., "Interleukin-2 Receptor Alpha Chain Regulates the Size and Content of the Peripheral Lymphoid Compartment", *Immunity*, **3**: 521-530, 1995.Zufferey, et al., "Multiply Attenuated Lentiviral Vector Achieves Efficient Gene Delivery in Vivo", *Nat. Biotechnol.* **15**: 871-875, 1997.

EXAMINER /Michael Burkhardt/

DATE CONSIDERED 05/10/2009

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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